

HematoVision - Requirement Analysis

Functional Requirements

- Upload image
- Predict type of cell
- Display prediction
- Option to upload again

Non-Functional Requirements

- Responsive app
- Fast model inference
- Easy to deploy

Hardware Requirements

- 8GB RAM minimum
- Intel i5 or higher
- GPU preferred

Software Requirements

- Python 3.8+
- TensorFlow/Keras
- Flask
- HTML/CSS
- GitHub

Dataset

Kaggle Blood Cell Dataset: <https://www.kaggle.com/datasets/paultimothymooney/blood-cells/data>